

TX station: 8xBkk2-v-bidir  
Gain solid integration : disabled

Site Name: Labelitaly

### General data of Antenna System

TX station	8xBkk2-v-bidir
Site Name	Labelitaly
System of coordinates	Geographic
Longitude	00°00'00.000"
Latitude	00°00'00.000"
Ground level a.s.l. (m)	100.0
Antenna system height (m)	50.0
Transmitter power(Watt)	1000.000
Carrier wave frequency (MHz)	200.000
Antenna system central frequency (MHz)	200.000
Antenna base diagrams type 1	LABEL ITALY-BKK_2V PANEL VHF WB
Antenna base diagrams type 2	-
Polarization (H/V/C/X)	V
Transmitting cable attenuation (dB)	0.0
Additional attenuations(dB)	0.0
Base diagrams sectors (T = All, F = Front)	T
Velocity factor of cables to Antennas (0÷1)	0.88
Coordinate System(C = cartesian, P = polar)	P
Mast side / diameter(cm):	150.0
Mast cross section (T/Q/C)	Q
Structure rotation w.r.t. North (°)	0.0
Mast rotation w.r.t. North (°)	0.0

### Information about antennas used in the System

	<i>Antenna type 1</i>
Manufacturer	LABEL ITALY
Antenna model	BKK_2V PANEL VHF WB
Band start(MHz)	174
Band stop(MHz)	225
diagrams Frequency(MHz)	200
Polariz (H,V,C,X)	V
Vertical dist (cm)	150
Height (cm)	87
Width (cm)	125
Thickness (cm)	40
Weight (Kg)	25
Maximum power (KW)	2
Gain (dBd)	7.5
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	24
R.C.Phase (°)	0

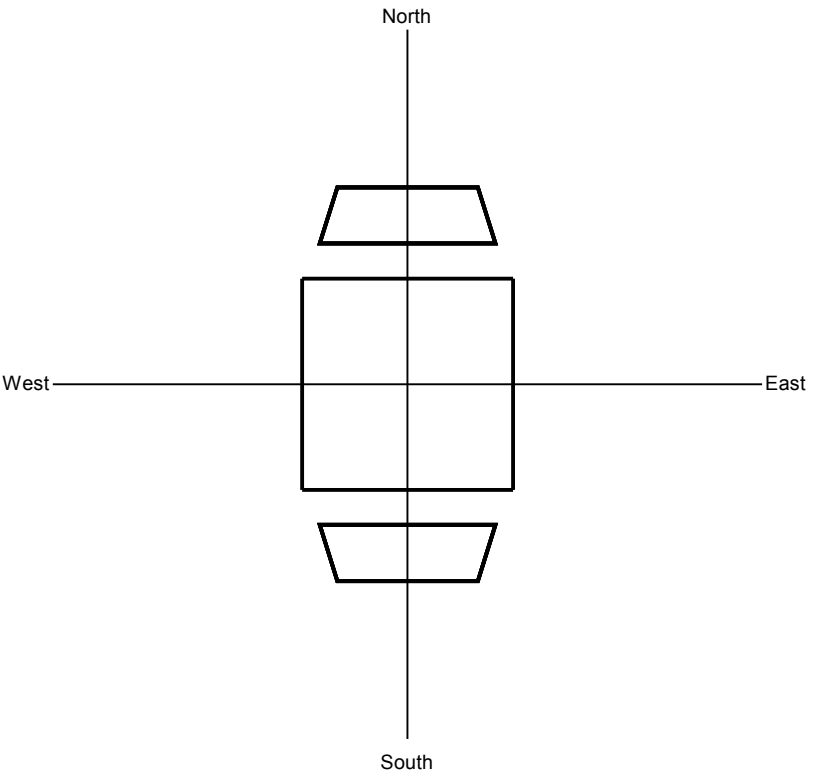
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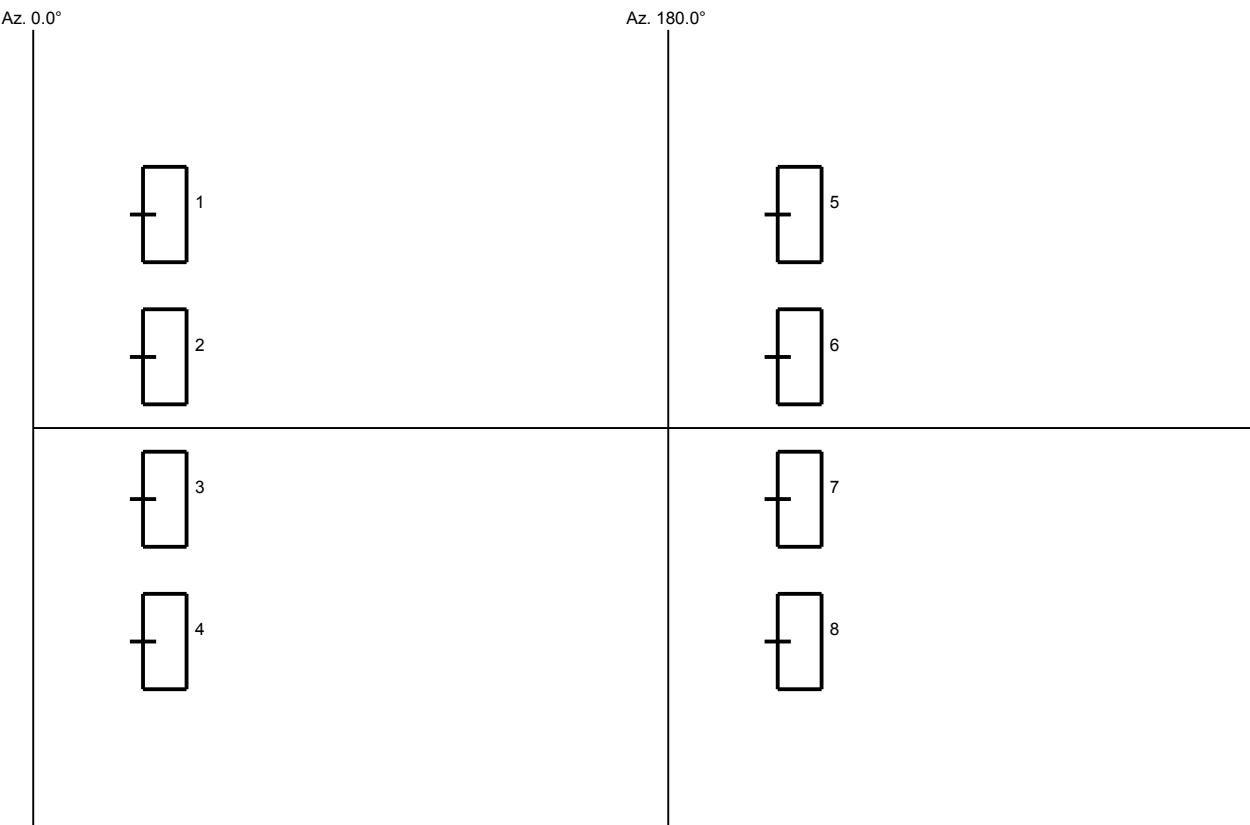
Geometr. and electrical data of Antenna System

	<i>Power</i> (%)	<i>Tilt</i> (°)	<i>Az.</i> (°/N)	<i>Phase</i> (°)		<i>V dist.</i> (m)	<i>Scr-d</i> (cm)	<i>Scr-Az</i> (°/N)	<i>Rot.</i> (1÷4)	<i>Type</i> (1÷2)	<i>L cables</i> (cm)	<i>Car. phase</i> (°)
1	12.500	0	0	0	+0.0	1.95	100.0	0.0	1	1	300.0	0.0
2	12.500	0	0	0	+0.0	0.65	100.0	0.0	1	1	300.0	0.0
3	12.500	0	0	0	+0.0	-0.65	100.0	0.0	1	1	300.0	0.0
4	12.500	0	0	0	+0.0	-1.95	100.0	0.0	1	1	300.0	0.0
5	12.500	0	180	0	+0.0	1.95	100.0	180.0	1	1	300.0	0.0
6	12.500	0	180	0	+0.0	0.65	100.0	180.0	1	1	300.0	0.0
7	12.500	0	180	0	+0.0	-0.65	100.0	180.0	1	1	300.0	0.0
8	12.500	0	180	0	+0.0	-1.95	100.0	180.0	1	1	300.0	0.0

Plan of antenna system



Side of antenna system



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Antennas arrays data

A. Antennas array azimuth (°/N)	0	180
B. Number of antennas	4	4
C. Nominal power supply (W)	500.00	500.00
D. Losses (addit. + cables) (dB)	0.0	0.0
E. Effective power supply (W)	500.00	500.00
F. Theor. maximum gain (dBd)	13.52	13.52
G. Distribution losses (dB)	0.00	0.00
H. Nominal max gain [F - G] (dBd)	13.52	13.52
I. Compensation losses (dB)	0.00	0.00
J. Effec. max gain [H - I] (dBd)	13.52	13.52
K. Effec. max gain (times)	22.49	22.49
L. Effec. max power [E * K] (KW)	11.2468	11.2468
M. Max power depr. angle (°)	0.0	0.0
N. Max power az. angle (°)	0	180

Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	10.1	90	-5.4	180	10.1	270	-5.4
10	9.9	100	-7.4	190	9.9	280	-7.4
20	9.0	110	-9.5	200	9.0	290	-9.5
30	7.6	120	-4.6	210	7.6	300	-4.6
40	5.2	130	1.7	220	5.2	310	1.7
50	1.7	140	5.2	230	1.7	320	5.2
60	-4.6	150	7.6	240	-4.6	330	7.6
70	-9.5	160	9.0	250	-9.5	340	9.0
80	-7.4	170	9.9	260	-7.4	350	9.9

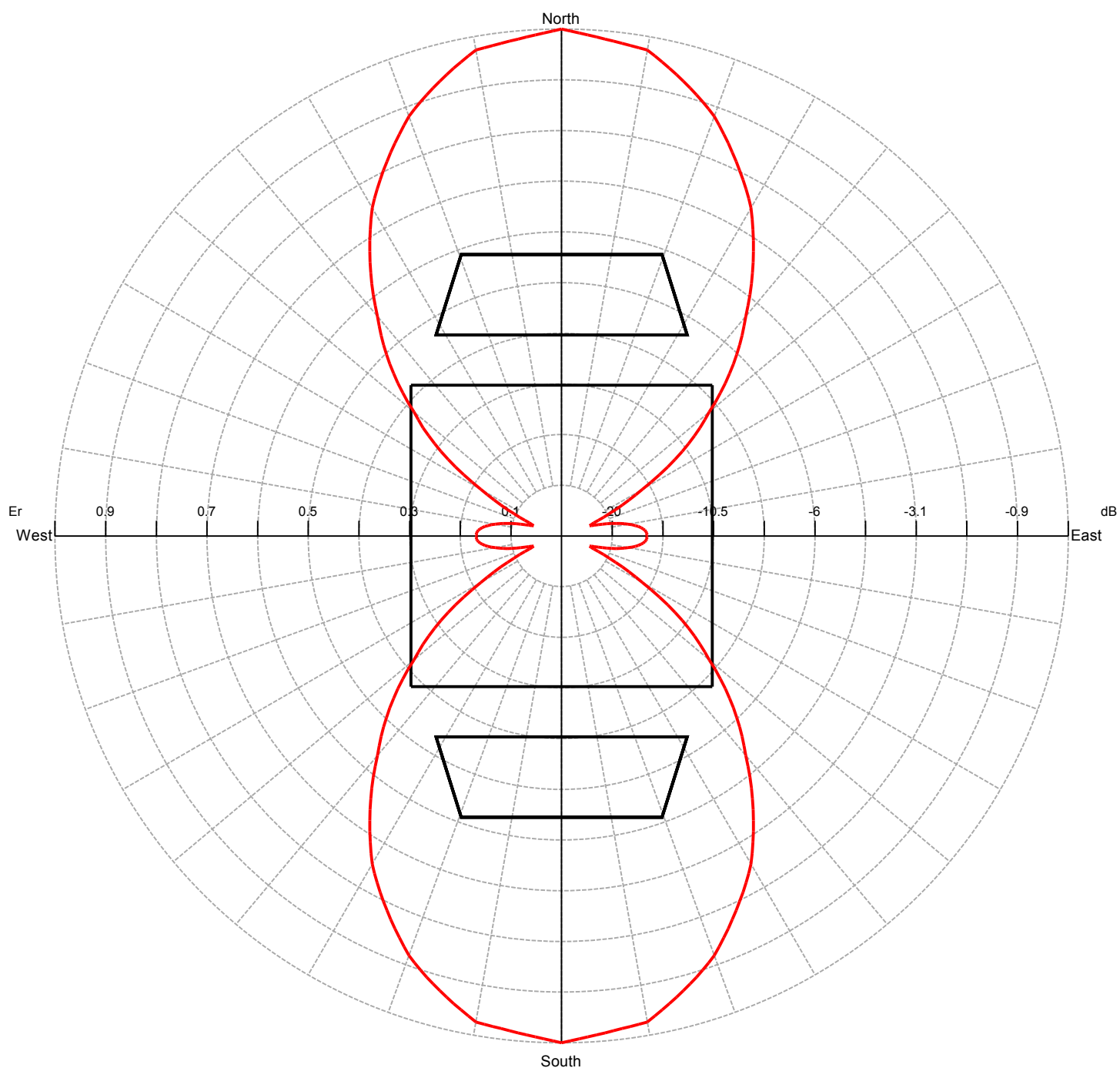
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## Horizontal diagram at 0.0° depres. (Total Antenna)



0.0° depres. (Total Antenna), Gain (dBd): 10.1

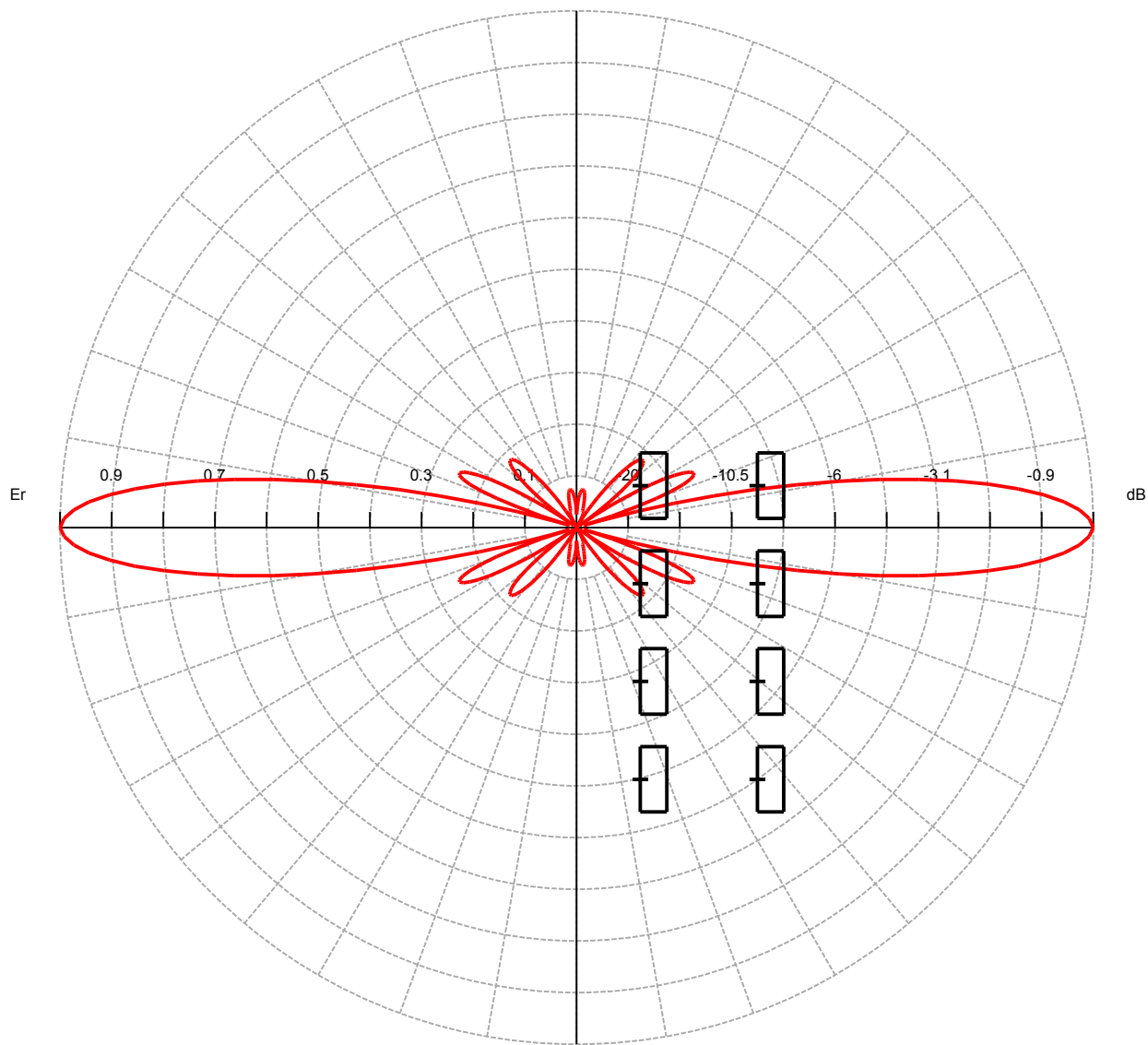
ERP T.Max(KW): 10.2346 ERP E.Max(KW): 10.2346

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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 10.1

ERP T.Max(KW): 10.2346 ERP E.Max(KW): 10.2346